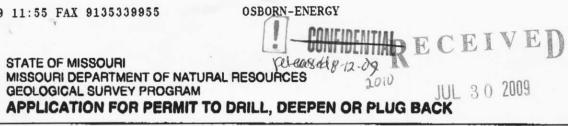
FORM OGC-3



NAME OF COMPANY OR OPERATOR  OSBORN ENERGY, LLC  ADDRESS  24850 FARLEY  DESCRIPTION OF WELL AND LEASE  NAME OF LEASE  SCOTT  WELL NUMBER  ELEVATION (GROUND  SCOTT  1-23  1030	
ADDRESS  24850 FARLEY  DESCRIPTION OF WELL AND LEASE  NAME OF LEASE  RELEVATION (GROUND	
24850 FARLEY DESCRIPTION OF WELL AND LEASE NAME OF LEASE WELL NUMBER ELEVATION (GROUND	
DESCRIPTION OF WELL AND LEASE  NAME OF LEASE  WELL NUMBER  ELEVATION (GROUND	13
NAME OF LEASE WELL NUMBER ELEVATION (GROUND	
Scott   1-23   1030	
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)	
2150 ft. from North South section line 170 ft. from East West section line WELL LOCATION LONGITUDE COUNTY	
Sec. 23 Township 42 North Range 33  East  West Bates	
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 170 FEET	
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE 320 FEET	
PROPOSED DEPTH DRILLING CONTRACTOR, NAME AND ADDRESS ROTARY OR CABLE TOOLS APPROX. DAT	E WORK WILL START
600 OSBORN ENERGY, LLC BUCYRUS, KS 8/4/2009	
80 NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 1	
NUMBER OF ABANDONED WELLS ON LEASE Q	
IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NO. OF WELLS PRODUC	CING Q
NAME	
ADDRESS ABANDO	TIVE Q
STATUS OF BOND SINGLE WELL SLANKET BOND SON F	ILE
AMOUNT \$ AMOUNT \$ 30000.00 ATTA	CHED
INJECTION ZONE; USE BACK OF FORM IF NEEDED)	TO CALLO ILEM
PROPOSED CASING PROGRAM APPROVED CASING - TO BE FILLED IN BY STATE G	EOLOGIST
PROPOSED CASING PROGRAM  APPROVED CASING - TO BE FILLED IN BY STATE G  AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT	EOLOGIST CEMENT
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland	
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT	
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  800' 2 7/8** Portland	CEMENT
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  800' 2 7/8** Portland  I, the Undersigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sail	CEMENT
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  800' 2 7/8** Portland  I, the Undersigned, state that I am the <u>agent</u> of the <u>Osborn Energy, LLC</u> (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein	CEMENT
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AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  600' 2 7/8" Portland  I, the Undersigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the best of my knowledge.  BIGNATURE  PERMIT NUMBER  DATE  7.30.09  DRILLER'S LOG REQUIRED  E-LOGS REQUIRED IF RUN	id company to are true,
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  1, the Undersigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beal of my knowledge.  BIGNATURE  PERMIT NUMBER  DATE  7.30.09  DRILLER'S LOG REQUIRED  DOBILL SYSTEM TEST INFO RE	id company to are true,
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AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  1, the Undereigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beat of my knowledge.  PERMIT NUMBER  203 86  DRILLER'S LOG REQUIRED  CORE ANALYSIB REQUIRED ORILL SYSTEM TEST INFO RE  SAMPLEB REQUIRED 10' WHings	id company to are true,
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  I, the Undersigned, state that I am the agent of the Osborn Energy. LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the best of my knowledge.  BIGNATURE  PERMIT NUMBER  20396  APPROVED DATE  7-30-09  DRILLER'S LOG REQUIRED  DO DRILLER'S LOG REQUIRED  DO DRILL SYSTEM TEST INFO RE  SAMPLES NOT REQUIRED AT  WATER SAMPLES REQUIRED AT	id company to are true,
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  800' 2 7/8" Portland  I, the Undersigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beal of my knowledge.  BIGNATURE  PERMIT NUMBER  20386  DATE  7-30-09  DATE  7-30-09  DATE  7-30-09  DATE  TO DRILLER'S LOG REQUIRED DE E-LOGS REQUIRED DE GOVERNO DE GOV	dd company to are true,
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  I, the Undersigned, state that I am the agent of the Osborn Energy. LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beal of my knowledge.  BIGNATURE  PERMIT NUMBER  20386  DRILLER'S LOG REQUIRED  SAMPLES REQUIRED  SAMPLES REQUIRED TO CHIEF SAMPLES REQUIRED  SAMPLES NOT REQUIRED TO SAMPLES REQUIRED  WATER SAMPLES REQUIRED TO THE SAMPLES REQUIRED TO ANY OTHER LOCATION.  APPROVAL OF THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.  APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PERMITTEE	CEMENT  CEMENT  COURSED IF RUN  COURSED IF RUN  CROPOSED
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT 20 7 Portland  I, the Undereigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beal of my knowledge.  BIGNATURE  DATE  7.30.09  PERMIT NUMBER  20386  DIRILLER'S LOG REQUIRED  SOMPLES REQUIRED DIRILLER'S LOG REQUIRED DIRICH	CEMENT  CEMENT  COURANT  COURA
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT  20' 7' Portland  I, the Undersigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sail make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beat of my knowledge.  BIGNATURE  PERMIT NUMBER  20386  DRILLER'S LOG REQUIRED  CORE ANALYSIS REQUIRED IF RUN  CORE ANALYSIS REQUIRED IF RUN  CORE ANALYSIS REQUIRED IN CORE ANALYSIS REQUIRED AT  NOTE  THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.  APPROVAL OF THIS PERMIT BY THE CIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PERMITTEE  I, of the (Company), confirm that an approved drilling permit has been obtained by the owner of this well approval of this permit will be shown on this form by presence of a permit number and signature of authorized council response.	CEMENT  CEMENT  COURANT  COURA
AMOUNT SIZE WT/FT CEMENT AMOUNT SIZE WT/FT 20 7 Portland  I, the Undereigned, state that I am the agent of the Osborn Energy, LLC (Company), and that I am authorized by sal make this report, and that this report was prepared under my supervision and direction and that the facts stated therein correct, and complete to the beal of my knowledge.  BIGNATURE  DATE  7.30.09  PERMIT NUMBER  20386  DIRILLER'S LOG REQUIRED  SOMPLES REQUIRED DIRILLER'S LOG REQUIRED DIRICH	CEMENT  CEMENT  COURANT  COURA

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MO 780-0213 (09-01)

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM
WELL LOCATION PLAT

JUL 3 0 2009

FORM OGC-4

Mo Oil & Gas Council

OSBORN ENERGY, LLC		# 2	0386		COUNTY		
Scott 1-23 WELL LOCATION		(GIVE FOOTAGE FRO		\$)	Bates		
2150 ft. from ⊠	North South	from section lin	ne <u>170</u> ft.	from 🛛 East	West from a	ection line	
WELL LOCATION Sec. 23 Township 42 North	Bance 33 🖂	East M Mass					
ATITUDE	Triange 99 L	Cast M 4468	LONGITUDE		Drex	iel Quad-	
	1	1/-	1	/ / /	1	1 dong	-
<b>ΜΛ</b> Ισυστιι.	1					1	
LEASE LINE						1980'	
1/1 SECTION Line							
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ANKS	7	,		,			/
INSTRUC	TIONS		This is to c	ertify that I have	executed a su	rvev to accure	ately
			locate oil a	nd gas wells in a sulte are correcti	accordance wit	th 10 CSA 50-	2.030 and
the above plat, show distance nearest section lines, the nea	rest lease line, a	nd from the	mat me rec	orne me conecti	y anown on the	above plat.	
arest well on the same lease co ne reservoir. Do not confuse s	impleted in or dri	iling to the					
e rule 10 CSR 50-2.030 for sun lest be marked.	vey requirements	. Lease lines	14.				
st be marked.							

REMIT TWO (2) COPIES TO: MISSOURI OIL AND GAS COUNCIL, PO BOX 250, ROLLA, MO 65402 573/ 368-2165.

8/13/2009

Geological Survey Program P.O. Box 250 Rolla, MO 65402

Dear Commissioners,

Osborn Energy, LLC, having its principal place of business at 24850 Farley, Bucyrus, KS 66013 is requesting that the Geological Survey Program keep all information for the following well confidential for the maximum amount of time allowed.

LEASE NAME:	Scott	WELL #:	1-23	- 1	
Permit #:	20386		No. of Contrast of		··········
	Sec 23	Twn 42N	Rng 33W		

Sincerely,

Curstin Hamblin

Geologist

Osborn Energy, LLC.

Custin Housei

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

CONFIDENTIAL

SEP 03 2009

FORM OGC-5

	NEW WELL COMPLETION OR RECOMPLETION REPORT AND WELL COMPLETION OR RECOMPLETION REPORT AND WELL COMPLETION OR RECOMPLETION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ GAS ☐									
NEW WELL      □     DRY	) workovi	R DEEPE	EN PLU	IG BACK	INJECTION	SAME RE	SERVOIR D	IFFERENT RESER	RVOIR 🛛	OIL GAS G
OWNER						ADDRESS				
Osborn Energ	y, LLC					24850 Fa		s, KS 66013		
Scott						1-23				
LOCATION OF WELL	SEC 1	WN RNG	-	OR	BLO	LOCK AND SURVEY LATITUDE LONGITUDE				
Sec. <u>23</u> Twp <u>42</u> N	lorth, Rng				m 🛮 North	South 170	ft. from Eas	t  West		
COUNTY		PERMIT NUM	BER (OGC-3	OR OGC-31)						
Bates		20386		OUED I DAT	E COMPLET	ED DEADY TO	ELEVATION (	OF DVD DT OD CO	ELEVATIV	ON OF CASING HD.
DATE SPUDDED DATE TOTAL DEPTH REACHED PRODUCE OR						ED TIETE TO   ELETTITION (ET   TITAL) TO			FLANGE	
8/5/2009 8/6/2009							1	030		FEET
TOTAL DEPTH PLUG BACK TOTAL DEPTH										
499 NA										
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION  ROTARY TOOLS USED (INTERVAL)  O TO 499										
436-444						DRILLING FLU				
WAS THIS WELL DIRE	CTIONALLY I	RILLED?	WAS DIRECT	IONAL SURVEY	MADE?		F DIRECTIONAL SU		DATE FIL	LED
Yes No Yes No Yes  TYPE OF ELECTRICAL OR OTHER LOGS RUN (JUST LOGS FILED WITH THE STATE GEOLOGIST)						□N	0	DATE EII		
			T LOGS FILE	D WITH THE ST	ATE GEOLOG	aist)			DATE FIL	
Gamma Ray N	Neutron/(	CCL							8/31/2	2009
			1000		Description (CO)	RECORD				
CASING (REPOR	T ALL ST	RINGS SET I	N WELL -	CONDUCTO	OR, SURF	ACE, INTERN	MEDIATE, PRO			
PURPOSE	SIZE HO	E DRILLED	SIZE C	ASING SET	WEIGH	IT (LB. FT)	DEPTH SET	SACKS CE	MENT	AMOUNT PULLED
Surface	9 1/4"		7"				20' 3		0	
Production	6 1/4"		2 7/8"				476.58 78		0	
TO THE RESERVE OF STREET	TI	BING REC	ORD		TO THE ST			LINER RECO	RD	
SIZE	DEPTH SET	PAC	KER SET AT	CITE		TOP	BOTTOM	SACK	S CEMENT	SCREEN
		TOP POTTON CACVE CENERIT SCHEEN								
INCH	F									
INCH		EET ORATION I	FEET		INCH	FE	ET	FEET	NT SQUE	FEET EZE RECORD
INCH NUMBER PER FE	PERF		FEET			FE ACID, AMO	ET	FEET TURE, CEMEN		
Basel A St.	PERF	ORATION	FEET RECORD PE		ERVAL	ACID,	ET SHOT, FRAC UNT AND KIND O	FEET TURE, CEMEN	DEPTH	EZE RECORD
NUMBER PER FE	PERF	ORATION I	FEET RECORD PE	DEPTH INT	ERVAL	ACID,	SHOT, FRAC UNT AND KIND O ATERIAL USED	FEET TURE, CEMEN	DEPTH	HINTERVAL
NUMBER PER FE	PERF	ORATION I	FEET RECORD PE	DEPTH INT	ERVAL	ACID, AMO M 75 ac	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	FEET TURE, CEMEN	DEPTH	HINTERVAL
NUMBER PER FE	PERF	ORATION I	FEET RECORD PE	DEPTH INT 436-4	ERVAL  44	ACID, AMO M 75 ac	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMEN	DEPTH	HINTERVAL
NUMBER PER FE	PERF	ORATION I	PE FRODE	DEPTH INT  436-4  IN  UCING METHOD	ERVAL  44	ACID, AMO M 75 ac	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	FEET TURE, CEMEN	DEPTH	HINTERVAL
NUMBER PER FE  2 perfs  DATE OF FIRST PROD 8/27/2009	PERF	SIZE AND TY 2" DML R	PE PRODU	DEPTH INT  436-4  IN  UCING METHOD  ping-	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 ac ODUCTION FLOWING, GAS	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMEN	DEPTH 43	HINTERVAL
NUMBER PER FE  2 perfs  DATE OF FIRST PROD  8/27/2009  DATE OF TEST	PERF SET SUCTION OR HOURS TEST	SIZE AND TY 2" DML R	PE PRODU	DEPTH INT  436-4  IN  UCING METHOD  ping- PRODUCED DU	ERVAL  44  ITIAL PR (INDICATE IF	ACID, AMO M 75 at	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  nd  G - IF PUMPING, SHO  WATER PRODUCE TEST	DEPTH 43 DW SIZE AND	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY
NUMBER PER FE  2 perfs  DATE OF FIRST PROD  8/27/2009  DATE OF TEST  8 · 27 · 09	PERF	SIZE AND TY 2" DML RT	PRODU PRODU PUM	DEPTH INT  436-4  IN  UCING METHOD  ping- PRODUCED DU  ST  O  BB	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  NA MCF	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  INC.  INC.  THE PUMPING, SHOWATER PRODUCE TEST  AD  BI	DEPTH 43	H INTERVAL  B6-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)
NUMBER PER FE  2 perfs  DATE OF FIRST PROD  8/27/2009  DATE OF TEST	PERF	SIZE AND TY 2" DML R	PE PRODU PUM SIZE OIL TES	DEPTH INT  436-4  IN  UCING METHOD  ping- PRODUCED DU	ERVAL  44  ITIAL PR (INDICATE IF	ACID, AMO M 75 at	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  nd  G - IF PUMPING, SHO  WATER PRODUCE TEST	DEPTH 43 DW SIZE AND	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY
NUMBER PER FE  2 perfs  DATE OF FIRST PROD  8/27/2009  DATE OF TEST  8 · 27 · 09	PERF	SIZE AND TY 2" DML RT	PE PRODU PUM SIZE OIL TES	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  BT  BB  ED RATE OF	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  NA MCF	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  INC.  INC.  THE PUMPING, SHOWATER PRODUCE TEST  AD  BI	DEPTH 43 DW SIZE AND	H INTERVAL  B6-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)
NUMBER PER FE  2 perfs  DATE OF FIRST PROD  8/27/2009  DATE OF TEST  8 · 27 · 09	PERF DUCTION OR HOURS TEST 2 4 CASING F	SIZE AND TY 2" DML RT  NJECTION  TED CHOKE S  RESSURE	PRODUCTION PRODUCTION	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  BB  ED RATE OF  ON PER 24 HOU	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 at  ODUCTION F FLOWING, GAS  GAS PRODUCE  N A MCF OIL	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  nd  G-IF PUMPING, SHO  WATER PRODUCE TEST  20 BI  WATER	DEPTH 43 DW SIZE AND	H INTERVAL  B6-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0 9 TUBING PRESSURE	PERF DUCTION OR HOURS TEST 2 4 CASING F	SIZE AND TY 2" DML RT  NJECTION  TED CHOKE S  RESSURE	PRODUCTION PRODUCTION	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  BB  ED RATE OF  ON PER 24 HOU	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 at  ODUCTION F FLOWING, GAS  GAS PRODUCE  N A MCF OIL	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  nd  G-IF PUMPING, SHO  WATER PRODUCE TEST  20 BI  WATER	DEPTH 43 DW SIZE AND	H INTERVAL  B6-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0 ° TUBING PRESSURE  DISPOSITION OF GAS NA METHOD OF DISPOSA	PERF DUCTION OR HOURS TEST CASING F (STATE WHE	SIZE AND TY 2" DML RT  NJECTION  THER VENTED,	PRODUCTION OF THE PRODUCTION O	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  BB  ED RATE OF  ON PER 24 HOU  FUEL OR SOLD)	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 at  ODUCTION F FLOWING, GAS  GAS PRODUCE  N A MCF OIL	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA	TURE, CEMENOF  nd  G-IF PUMPING, SHO  WATER PRODUCE TEST  20 BI  WATER	DEPTH 43 DW SIZE AND	H INTERVAL  B6-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0 9 TUBING PRESSURE DISPOSITION OF GAS NA METHOD OF DISPOSA Drilled with air	PERF DUCTION OR HOURS TEST CASING F CASING F LOF MUD PI	SIZE AND TY 2" DML RT  NJECTION  THER VENTED,  T CONTENTS  OF EVAPORA	PRODUCTION OF THE PRODUCTION O	DEPTH INT  436-4  IN  UCING METHOD  ping- PRODUCED DU  ST  O  BB  ED RATE OF ON PER 24 HOU  FUEL OR SOLD)  fill in pit	ERVAL  44  ITIAL PR (INDICATE IF	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  N A MCF OIL BBLS	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA SLIFT, OR PUMPING D DURING TEST  GAS MCF	TURE, CEMENOF  INCLUDE OF THE PUMPING, SHOWATER PRODUCE TEST  AD BE WATER  BBLS	DEPTH 43 DW SIZE AND D DURING BLS	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)  GAS OIL RATIO
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0 9 TUBING PRESSURE DISPOSITION OF GAS NA METHOD OF DISPOSA Drilled with air CERTIFICATE:	DUCTION OR HOURS TEST  CASING F  CASING F  CASING F  I, the Urke this rep	SIZE AND TY 2" DML RT  NJECTION  THER VENTED,  T CONTENTS  OF evaporal dersigned, ort, and the	PE  FECORD  PE  FG  PRODU  pum  SIZE  CALCULATI  PRODUCTION  USED FOR F	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  O  BB  ED RATE OF  ON PER 24 HOU  FUEL OR SOLD)  fill in pit  It I am the Goort was pre-	ITIAL PR (INDICATE IF  BLS  RS  Geologist  pared und	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  NA MCF OIL BBLS	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA  SLIFT, OR PUMPING D DURING TEST  GAS  MCF	TURE, CEMENOF  INCLUDE OF THE PUMPING, SHOWATER PRODUCE TEST  WATER BBLS  WATER BBLS	DEPTH 43 DW SIZE AND D DURING BLS	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)  GAS OIL RATIO
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0  TUBING PRESSURE  DISPOSITION OF GAS NA METHOD OF DISPOSA Drilled with air CERTIFICATE: company to male	PERF EET  DUCTION OR  HOURS TEST  CASING F  CASING F  L OF MUD PI  - let wate  I, the Ur  ke this rep  and com	SIZE AND TY 2" DML RT  NJECTION  THER VENTED,  T CONTENTS  OF evaporate  dersigned,  port, and the plete to the  NATURE	PE TG PRODUCTION  CALCULATION PRODUCTION  USED FOR E  te, then  state that at this rep best of no	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  O  BB  ED RATE OF  ON PER 24 HOU  FUEL OR SOLD)  fill in pit  It I am the Goort was preny knowledge	ERVAL  44  ITIAL PR (INDICATE IF  IRING  BLS RS  RS  Reologist pared und ge.	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  NA MCF OIL BBLS	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA  SLIFT, OR PUMPING D DURING TEST  GAS  MCF	TURE, CEMENOF  INCLUDE OF THE PUMPING, SHOWATER PRODUCE TEST  WATER BBLS  WATER BBLS	DEPTH 43 DW SIZE AND D DURING BLS	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)  GAS OIL RATIO
DATE OF FIRST PROD 8/27/2009 DATE OF TEST 8 · 27 · 0  TUBING PRESSURE  DISPOSITION OF GAS NA METHOD OF DISPOSA Drilled with air  CERTIFICATE: company to mal are true, correct	PERF EET  DUCTION OR  HOURS TEST  CASING F  CASING F  L OF MUD PI  - let wate  I, the Ur  ke this rep  and com	SIZE AND TY 2" DML RT  NJECTION  THER VENTED,  T CONTENTS  OF evaporate  dersigned,  port, and the plete to the  NATURE	PE TG PRODUCTION  CALCULATION PRODUCTION  USED FOR E  te, then  state that at this rep best of no	DEPTH INT  436-4  IN  UCING METHOD  PRODUCED DU  ST  O  BB  ED RATE OF  ON PER 24 HOU  FUEL OR SOLD)  fill in pit  It I am the Goort was pre-	ERVAL  44  ITIAL PR (INDICATE IF  IRING  BLS RS  RS  Reologist pared und ge.	FE ACID, AMO M 75 ac  ODUCTION FLOWING, GAS GAS PRODUCE  NA MCF OIL BBLS	SHOT, FRAC UNT AND KIND O ATERIAL USED CID, 40 SX SA  SLIFT, OR PUMPING D DURING TEST  GAS  MCF	TURE, CEMENOF  INCLUDE OF THE PUMPING, SHOWATER PRODUCE TEST  WATER BBLS  WATER BBLS	DEPTH 43 DW SIZE AND D DURING BLS	H INTERVAL  36-444  D TYPE OF PUMP.)  OIL GRAVITY  API (CORR.)  GAS OIL RATIO

INSTRUCTIONS: Attach drillers log or other acceptable log of well.

Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

ume tool open,	nowing and si	nut-in pressures,	AIL OF FORMATIONS PENETRATED
FORMATION	TOP	воттом	DESCRIPTION (SEE * ABOVE)
			See Georeport RECEIVED
			SEP 03 2009
			Mo Oil & Gas Council



PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET REF # 458 / 8

LOCATION FOREMAN

### SEP TREATMENT REPORT FRAC & ACID

DATE	CUSTOMER#	T MATEL		FRAC & A		TOMBIOLUB	T 544465	
		Mo	L NAME & NUM	Council	SECTION	TOWNSHIP	RANGE	COUNT
CUSTOMER	6073	1	197	1	23	42		
JUSTUMER					Moveo access	Carrier in a		
44 W ADDDES		V			TRUCK#	DRIVER	TRUCK#	DRIVER
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		Ta	T======		1777	14.		
CITY		STATE	ZIP CODE		771,000	1500		
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the street	will be now it	Carrierius es es	shingun istina					
	WELL			7				
ASING SIZE		TOTAL DEPTH				TYPE OF TI	REATMENT	
ASING WEIGHT		PLUG DEPTH			7	1/6	Comb. 4	
UBING SIZE		PACKER DEPT	Н			CHEM	ICALS	
UBING WEIGHT		OPEN HOLE			1 10 8 10	J. (1) 1-4-	775 FI.	Gran Ly
ERFS & FORMAT	TON				20 -1/	Latin Latin	1 1	-741
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							special first by bla	t petition i
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■ II /.	10				/ 700		END PRESSURE	
							BALL OFF PRES	S
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	11.8						ISIP 575	-
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	here						10 MIN	
							15 MIN	
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		130			4000		MAX RATE	
			1				DISPLACEMENT	10
				1				
							DIOI ENGLINE	
							DIOI ENGLINEITI	

Pump-15





PO Box 884, Chanute, KS 66720

SEP 03 2009

TICKET NUMBER

LOCATION 0++ and

FOR FIELD TICKET & TREATMENT REPORT FOREMAN Fred Mader

620-431-9210	or 800-467-8676		CEMEN	T			
DATE	CUSTOMER# WE	LL NAME & NUMBER	R	SECTION	TOWNSHIP	Misso RANGE	COUNTY
8/12/09		44.			1 3 1 1 1 1 1	TONGE	
CUSTOMER	1					The state of the s	Batis
MAILING ADDR	Sborn Eneve	Julla	[	TRUCK#	DRIVER	TRUCK #	DRIVER
		0	1	506	Fred		
CITY	850 Farley			495	Casey		
		ZIP CODE		510	Arlen		
	yrus KS	66013					
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CASING DEPTH			JBING			OTHER	
SLURRY WEIGH			ATER gal/sk		CEMENT LEFT in	CASING 2%	" Plue
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Pres	ssure to 780	* PSI.	Releas	e Duese	cime to	5-4-510	anzu.
Valu	ve. Shut in	casing.		7	9.7		100
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Cust	omer Supplie	d H20			1-40	1 (don	
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1126	785145	owc	Cemes	×			124800
11183	100 *	Premi	m 6.	el			1600
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4402	,	Flo Se	hhan	Plin			39 40
		22 /	OUT	1109			2200
						+	
		WOF	230	857			

AUTHORIZTION MM MM

ESTIMATED TOTAL

SALES TAX

6.8%

270396 DATE



### Geological Report

Mo Oil & Gas Council

### Scott # 1-23

2150 FNL, 170 FEL Section: 23-T42-R33W

Bates Co., Missouri

Permit #:

20386

Elevation:

1030' GL

Drilling Contractor: Osborn Energy, L.L.C (Lic. # 32294)

8/5/2009

Production Bore Hole: 6 1/4"

Rotary Total Depth: 499 on 8/6/2009

Drilling Fluid:

air

Surface Csg.:

7"

Production Csg.: 2 7/8" 476.58'

Geologist:

Curstin Hamblin

Driller:

Brian Schwab

Formation Dri	ller Log Tops	Datum
-		
Stark Shale	None	
Hushpuckney Shale	None	
Base Kansas City	No call	
Knobtown Sand	49	
Carbonaceous Zone in Tacket Fm.	No call	
"Big Lake" Sand	NO call	
South Mound Zone	151 <b>'</b>	879
Hepler (Wayside) Sand	No call	
"Upper" Mulberry Zone	No call	
Mulberry Zone	No call	
Weiser Sand	No call	
Myrick Station	307-309 <b>′</b>	723
Anna Shale (Lexington Coal Zone)	310-313 <b>′</b>	720
Peru Sand	No call	
Summit Shale Zone	359-360'	671
Mulky Coal/Shale Zone	No call	
Squirrel Sand	379-348'	651
Bevier Zone	451-452'	579
Croweburg Zone	464-466'	566
	472	558
Fleming Zone	* - ~	
Rotary Total Depth	499'	



SEP 03 2009

Drilling at 39' in the Kansas City on 8/6/2009 at 6:30am Background Gas (BG)18.9 units

Mo Oil & Gas Council

```
39-48: LS: white, tan, SS: lt grey, small grained, partially gummy
49-58: SS: It grey, small grained, gummy
59-68: SS: grey, small grained, gummy, speckled
69-78: SS: grey, very small grained, speckled
79-88: SS: very fine grained, gummy, Pyrite
89-98: Siltstone: grey, gummy
99-108: Siltstone: grey, gummy
109-118: SH: grey, gummy
119-128: SH: grey, gummy
129-138: SH: grey, gummy
139-148: SH: grey, gummy
SOUTH MOUND ZONE Geologist called @151', gas kick of 0 units over BG
149-158: SS: grey, small grained, SH: grey, gummy
      151: SH: dk grey (south Mound?)
159-168: SH: grey, gummy, silty, SS: small grained, tan, angular
169-178: SH: red, SH: grey
179-188: SH: grey, sandy, gummy
189-198: SH: grey, SH: red
199-208: SH: grey, gummy, silty
209-218: SS: grey, gummy, small grained
CG: 60 units
Switching to water before we drill into the oil
219-238:
      223: Sand
      224: Sand, very poor breakout oil, greasy
      225: Sand: grey, medium grained, greasy, Shaley, poor breakout oil
      230: Sand: grey, medium grained, speckled, greasy, still shaley, good
breakout oil
      231: Sand: medium grained, firm, very little to no shale, good breakout
oil
      234: SH: grey, gummy, no breakout oil
      235: Sand: medium grained, little shale, good breakout oil
      236: Sand: medium grained, good bleeding oil on samples, excellent
breakout oil
      237: Sand: small grained, shaley, Poor breakout oil
219-238: good show of oil in pit, 16 MCF, good breakout oil in places, but only
about 1' of usable sand. All other sand is shaley and will be hard to produce.
239-248: SS: small to medium grained, speckled, SH: grey, green, and red,
samples are greasy and still bleeding into the pit, but there is too much shale
interbedded with the sand
249-258: SS: grey, medium grained, shaley, greasy
259-268: SS: grey, very gummy, greasy, very shaley
269-278: SS: grey, very shaley, coal growth, gummy, greasy
279-288: SH: grey, gummy, LS: occ.
289-298: SS: grey, Shaley, medium grained, very gummy
299-308: LS: brown, nodular, sandy appearance, SH: grey, gummy
```

LEXINGTON COAL ZONE Geologist called @310-313', gas kick of 100 units over BG

```
**GAS TEST @318',100 MCF, 116 MCF open flow, 116 Total** Oil & Gas Council
310: SH: black, fair gas in samples
309-318: LS: brown, sandy, SH: black, SS: grey, medium grained
319-328: SS: grey, large grained, lots of quartz, Pyrite, SS: grey, small
grained
329-338: SS: It grey, fine grained, gummy
CG: 1600 units
339-348: LS: beige to lt grey, SH: grey
349-358: LS: 1t grey, SH: 358: grey
**GAS TEST @358', 0 MCF, 108 open flow, 116 total MCF Total **
CG: 1320 units
SUMMIT SHALE ZONE Geologist called @359-360', gas kick of 136 units over BG
**GAS TEST @370', 5 MCF, 113 open flow, 121 Total **
      359: SH: black fair gas in samples
359-368: SH: grey, SH: black, Pyrite
369-378: SH: grey, LS: black and tan, SH: black
      376-377: SH: dk grey/black, mixed with a tan, spotted LS
MULKY COAL/SHALE ZONE Geologist No call
SQUIRREL SAND Geologist called @379-448'
379-388: SS: 1t grey, small grained, firm
389-398: SS: 1t grey, small grained, SS: tan, very firm, angular, like LS
399-408: SS: small grained, no oil
409-418: SS: small to medium grained, biotite, soft
419-428: SS: small to medium grained, lots of biotite stringers, Pyrite
The oil sand is below the sand with the biotite. I did not see a shale break
      436: SS: large grained, grey, good oil in pit, good breakout oil
      437: ""
      438: "" great breakout oil, firm, no biotite
      439: SS: It grey, speckled, medium firmness, very good breakout oil,
greasy samples
      440: SS: It grey, medium grained, fair break out oil, firm, LS: tan
      441: SS: 1t grey, medium grained, speckled, good breakout oil, firm
      442: SS: It grey, medium grained, some firm, fair breakout oil, some soft,
poor breakout oil
      443: SS: It grey, medium grained, poor to fair breakout oil
      444: SS: It grey, small to medium grained, poor to fair breakout oil
     445: SS: It grey, lots of coal growth, medium grained, poor breakout oil
      446: SS: It grey, speckled, firm, medium grained, fair to good breakout
      447: SS: It grey, speckled, firm, medium grained, good to v. good breakout
oil-black/tan oil, air bubbles with lots of oil
      448: SS: It grey, firm, poor breakout oil, SS: dk grey, soft, no breakout
oil
BEVIER ZONE - Geologist called at 451-452', gas kick of 0 units over bg
449-458: LS: 1t grey, pyrite, SH: grey, Coal
      451-452: SH: black
      454-461: LS: lt grey
CROWEBURG ZONE Geologist called at 464-466', gas kick of 172 units over bg
```

459-468: LS: 1t grey, SH: black, pyrite

SEP 03 2009

! CONFIDENTIAL

464-466: SH: black, gas kick of 172 units, fair gas in samples Oil & Gas Council

FLEMING ZONE Geologist called at 472', gas kick of 0 units over bg

472: Coal

469-478: SH: grey, gummy, Coal, SS: white, large grained

479-488: SH: grey

489-498: SH: grey, dk grey

Finished drilling at 2:00pm

Total Rotary Depth, 499 on 8/6/2009
\*\*GAS TEST @499', 13 MCF, 126 open flow, 134 MCF Total \*\*

	20.0	6.25	Iwo
	0.0	9.75"	One
	FROM	ВІТ	No.
CORI	ORE-HOLE RE	B(	RUN
		d By	Witnessed
Ste		Ву	Recorded By
107	Location	<u>Z</u>	Equipment
	op	Estimated Cement Top	Estimated
	0	rded Temp	Max Recorded
		PPM CI	Salinity - F
		/iscosity	Density / Viscosity
		<u>.</u>	Type Fluid
		9	Fluid Level
		nterval	Top Log Interval
	val	ogged Inter-	Bottom Lo
		)ger	Depth Logger
		ller	Depth Driller
		ber	Run Number
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ed Fro	Drilling Measured		
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Ħ	Permanent Datum		
	Sec. 23	Γ,	D
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9	3	7	K

<u>ရှင် မှာ</u>

Elevation

Measured From

8-21-2009

Bates

State

Missouri

Other Services

Perforate

Wildcat

Mo Oil & Gas Coun

MMA RAY / NEUTRON / CCL

GGING - PERFORATING - CONSULTING SERVICES

20386

P.O. Box 68, Osawatomie, KS 66064

913 / 755 - 2128

pany Osborn Energy, LLC

Scott No. 1-23

<<< Fold Here >>> All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss. ists, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule

S.E. NA G.L. 1030

Elevation

Comments

Scan as 0560m-Scott-20386-6RN

Drilling Contractors: Osborn Energy, LLC

Database File: Dataset Pathname:

499.0

2.875 7.00" SIZE

476.58 20.0 70

20.0

10

WGT

FROM

CASING RECORD

OLE RECORD

Osawatomie

Water

Full 15.0

Z

Z Z

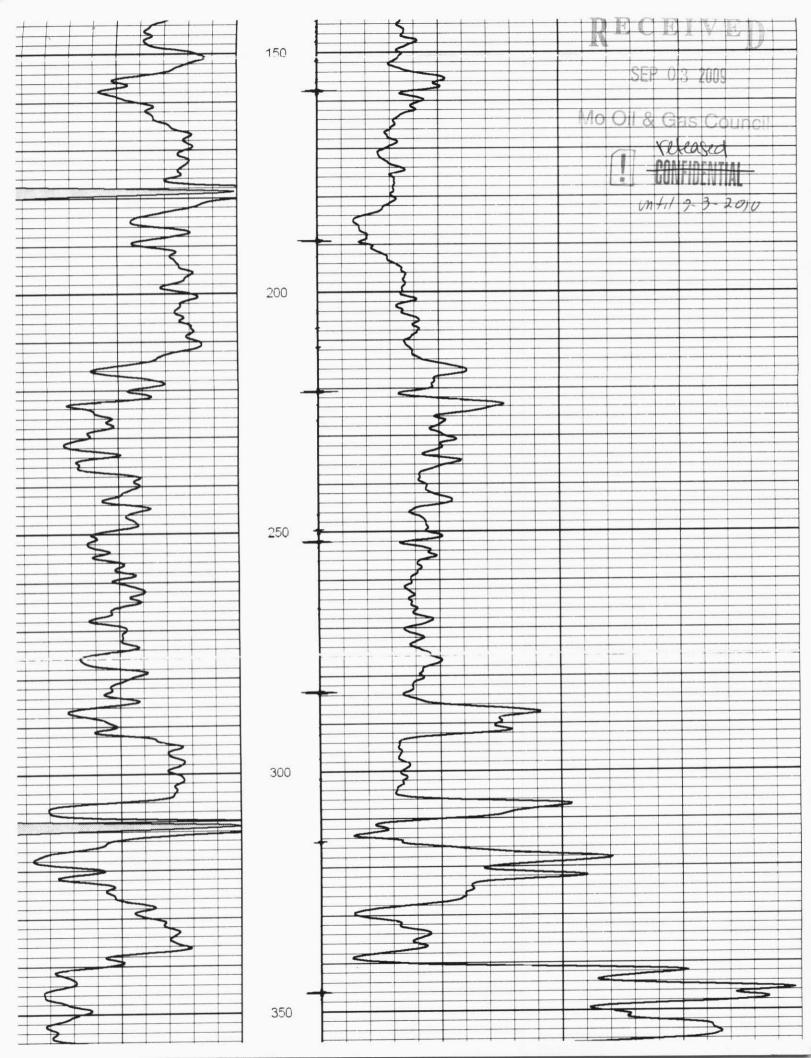
471.5 472.5 499.0

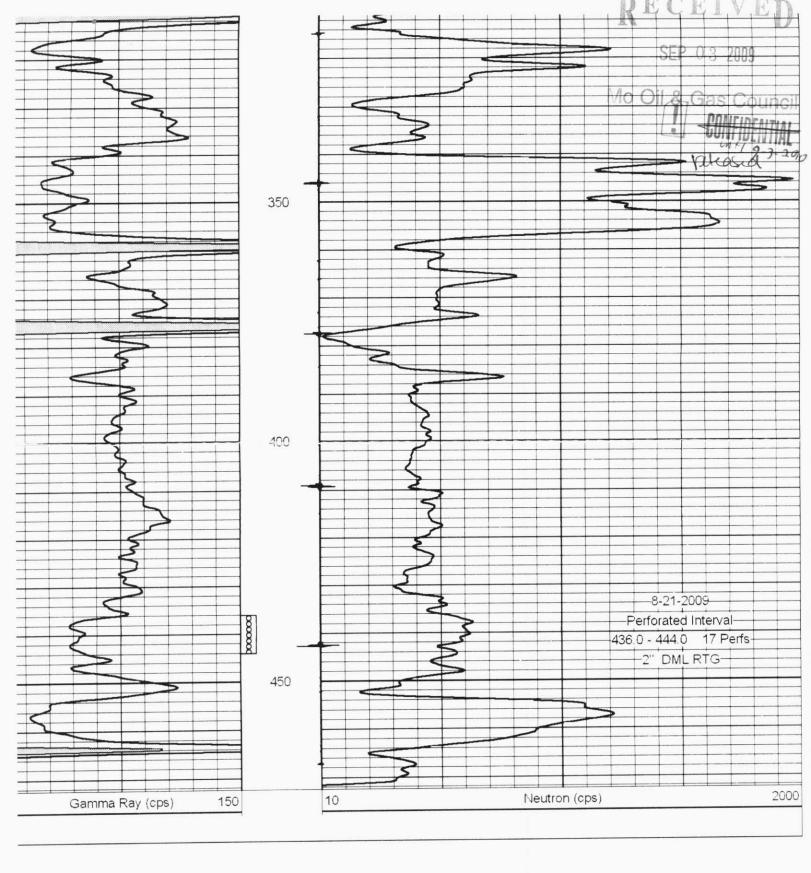
Steve Windisch

Jeff Taylor

scot1-23.db pass1

released REVED )atabase File: scot1-23.db CONFIDENTIAL SEP 03 2009 )ataset Pathname: pass1 'resentation Format: gr-n-ccl Fri Aug 21 09:04:12 2009 by Log Std Casedhole 07122 )ataset Creation: Mo Oil & Gas Council Depth in Feet scaled 1:240 Charted by: Gamma Ray (cps) 150 10 2000 Neutron (cps) 50 100 Gamma Ray -Neutron 150







## STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

FORM OGC-8

NOTICE O	F INTENTION TO ABANI	OON WELL			
NAME OF LEASE	L10321			DATE	· · · · · · · · · · · · · · · · · · ·
36011	£20396	The state of the s		6/22/201	0
WELL NUMBER	LOCATION	with Continual long and 470 th	57	~	
SECTION	TOWNSHIP	outh Section Line and 170 ft in	COUNTY	East We	st Section Line
23	42 North	33 🔲 East 🛛 West	Bates		
THE ELEVATION OF THE G	ROUND AT WELL SITE IS	PERMIT NUMBER (OGC-3 OR OGC-31 NUMB	ER)		
1030 FEET ABOVE SEA L	EVEL.	20386			
NAME OF CONTRACTOR OR COMP	ANY THAT WILL DO WORK IS:				
Consolidated Oil Well S	Services	CITY		Legazo	1 818
1322 S. Grant PO Box	994	Chanute		KS	ZIP
DETAILS OF WORK (INDICATE SIZE,	KIND, AND DEPTH OF PLUGS, WHERE CAS	NO WILL BE PULLED, OTHER PERTINENT DET	ALS)	No	66720
Perforations from 436-4	44, 7° suface casing set at 20	0', 2 7/8" casing set at 476.58'	R	JUN 2	IVED 2 2 2010 Gas Council
report; and that this report to complete to the best of my	was prepared under my supervis	ant of the <u>OELLC</u> (Company), and shon and direction and that the fac	nd that I	d herein are	ed to make this true, correct and
EUSEN -	Housein			6.22.	10





STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

JUL 21 2010

FORM OGC-7

GEOLOGICAL SURVEY PE PLUGGING RECORD

OWNER'S NAME							ADDRESS Mo Oil & Gas Council				
Osborn E		С		A Charles of the second			24850 Farley, E	Bucyrus,			
NAME OF LEAS	E						WELL NUMBER			MBER (OGC-3 (	OR OGC-31 NUMBER
Scott LOCATION OF	MELL	SEC TWIN BNG	OR BLOCK AND	CLIDVE	v		1-23	LONGITUE	20386	COUNTY	
TEST MARKET MEN							LATITODE	LONGITOR	JE .	Bates	
			ge 33 Ea		THIS WELL E	VER	CHARACTER OF WELL	AT COMPLET	ION (INITIAL PI		DRY?
Osborn E	nergy, LL	С		70.00	Yes 🖂		OIL (BBLS/DAY)	(	GAS (MCF/DAY	)	☐ Yes ☐ No
DATE OF ABAN	DONMENT	TOTAL DEPT	Н			ODUCING	RIOR TO ABANDONMENT WATER (BBLS/DAY)			the reservoir	
6/23/2010		499		OIL (B	BLS/DAY)		GAS (MCF/DAY)				
Name of each formation containing oil or gas.  Indicate which formation open to well bore at time of abandonment  Fluid content of each					formation	Depth in	terval of each formation			and depth of plu amount of ceme	
								pump 2	0 sacks o	f 50/50 pc	)Z
								cement	with 15#	cotton see	ed
	-1277							hull fron	n td to su	rface	
SIZE PIPE	PUT IN V	VELL (FT)	PULLED O	UT	LEFT IN (FT		GIVE DEPTH AND M OF PARTING CAS (SHOT, RIPPED, I	SING	F	PACKERS AN	D SHOES
7"	21'				21'						
2 7/8"	476.58		476.58		0						
WAS WELL FILL			?			EEPEST F	ORMATION CONTAINING I	FRESH WATE	R		
Yes	NADDRES	No	DIACENTI	EAS	BKC E OPER	ATORS	OR OWNERS OF	THE SUE	REACE		
NAME AND			DJACENT	LLAS	E OPEN			THE SUI		SIGN EDOM T	HO MELL
	NAI	ME 				ADDF	IESS		DIRECT	TION FROM T	HIS WELL
	HARLESON CASCASSES	- California - Cal									
	F DISPOS UD PIT TENTS	AL Drille	ed with air a	and w	ater, no	mud.	Let water evapor	ate, then	filled pit	with a bad	ckhoe
NOTE FIL	E THIS FORM	IN DUPLICATE	WITH: (USE REVE	RSE SI	DE FOR ADD	ITIONAL DI	ETAIL)				
	s report; ar	nd that this	ned, state th report was p of my knowl	orepai	red under	ent of the my sup	ne <u>OELLC</u> (Compa pervision and direct	any), and tion and th	that I am a	authorized las stated the	by said company erein are true,
CIGINATORE /	1111	10 -	Hauss	~M	1					7.19.1	D
	Custi Hauber 7.19.10										

# DETAIL OF FORMATIONS PENETRATED FORMATION TOP воттом DESCRIPTION (SEE \* BELOW) See the Geological Report JUL 21 2010 Mo Oil & Gas Council

NOTE

Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open flowing and shut-in pressures, and recoveries.

INSTRUCTIONS

Attach drillers log or other acceptable log of well if available.

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

### RECEIVED

### Geological Report

JUL 21 2010

### Scott # 1-23

Mo Oil & Gas Council

2150 FNL, 170 FEL Section: 23-T42-R33W

NE4

Bates Co., Missouri

Permit #:

20386

Elevation:

1030' GL

Drilling Contractor: Osborn Energy, L.L.C (Lic. # 32294)

Spud:

8/5/2009

Production Bore Hole: 6 1/4"

Drilling Fluid:

Rotary Total Depth: 499 on 8/6/2009

air

Surface Csg.:

7"

**Production Csg.:** 2 7/8" 476.58'

Curstin Hamblin

Geologist: Driller:

Brian Schwab

Formation Ge	o Tops	Log Tops	Datum
Stark Shale	None	Absent	
Hushpuckney Shale	None	21-24	1009
Base Kansas City	No call	41	989
Knobtown Sand	49	49-67	981
Carbonaceous Zone in Tacket Fm.	No call		
"Big Lake" Sand	NO call	155-159	875
South Mound Zone	151 <b>′</b>	178-180	852
Hepler (Wayside) Sand	No call	215-238	815
"Upper" Mulberry Zone	No call		
Mulberry Zone	No call		
Weiser Sand	No call		
Myrick Station	307-309'	306-310	724
Anna Shale (Lexington Coal Zone)	310-313'	310-313	720
Peru Sand	No call		
Summit Shale Zone	359-360'	358-361	672
Mulky Coal/Shale Zone	No call	374-380	656
Lower Squirrel Sand	379-348'	432-449	598
Bevier Zone	451-452'		579
Croweburg Zone	464-466'	463-465	567
Fleming Zone	472		558
Rotary Total Depth	499'		

JUL 2 1 2010

Drilling at 39' in the Kansas City on 8/6/2009 at 6:30am Background Gas (BG)18.9 units

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\*\*\*Log tops are in () below

39-48: LS: white, tan, SS: 1t grey, small grained, partially gummy

#### BKC: 41

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Knobtown Sand: 49-67
49-58: SS: 1t grey, small grained, gummy
59-68: SS: grey, small grained, gummy, speckled
69-78: SS: grey, very small grained, speckled
79-88: SS: very fine grained, gummy, Pyrite
89-98: Siltstone: grey, gummy
99-108: Siltstone: grey, gummy
109-118: SH: grey, gummy
119-128: SH: grey, gummy
129-138: SH: grey, gummy
139-148: SH: grey, gummy
SOUTH MOUND ZONE Geologist called @151' (178-180), gas kick of 0 units over BG
149-158: SS: grey, small grained, SH: grey, gummy
      151: SH: dk grey (south Mound?)
159-168: SH: grey, gummy, silty, SS: small grained, tan, angular
169-178: SH: red, SH: grey
179-188: SH: grey, sandy, gummy
189-198: SH: grey, SH: red
199-208: SH: grey, gummy, silty
209-218: SS: grey, gummy, small grained
CG: 60 units
Switching to water before we drill into the oil
Hepler/Wayside Sand: 215-238
219-238:
      223: Sand
      224: Sand, very poor breakout oil, greasy
      225: Sand: grey, medium grained, greasy, Shaley, poor breakout oil
      230: Sand: grey, medium grained, speckled, greasy, still shaley, good
breakout oil
      231: Sand: medium grained, firm, very little to no shale, good breakout
oil
      234: SH: grey, gummy, no breakout oil
      235: Sand: medium grained, little shale, good breakout oil
      236: Sand: medium grained, good bleeding oil on samples, excellent
breakout oil
     237: Sand: small grained, shaley, Poor breakout oil
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219-238: good show of oil in pit, 16 MCF, good breakout oil in places, but only about 1' of usable sand. All other sand is shaley and will be hard to produce.

239-248: SS: small to medium grained, speckled, SH: grey, green, and red, samples are greasy and still bleeding into the pit, but there is too much shale interbedded with the sand

249-258: SS: grey, medium grained, shaley, greasy

JUL 21 2010

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259-268: SS: grey, very gummy, greasy, very shaley
269-278: SS: grey, very shaley, coal growth, gummy, greasy
279-288: SH: grey, gummy, LS: occ.
                                                                Mo Oil & Gas Council
289-298: SS: grey, Shaley, medium grained, very gummy
299-308: LS: brown, nodular, sandy appearance, SH: grey, gummy
LEXINGTON COAL ZONE Geologist called @310-313' (310-313), gas kick of 100 units
over BG
**GAS TEST @318',100 MCF, 116 MCF open flow, 116 Total**
310: SH: black, fair gas in samples
309-318: LS: brown, sandy, SH: black, SS: grey, medium grained
319-328: SS: grey, large grained, lots of quartz, Pyrite, SS: grey, small
grained
329-338: SS: 1t grey, fine grained, gummy
CG: 1600 units
339-348: LS: beige to lt grey, SH: grey
349-358: LS: 1t grey, SH: 358: grey
**GAS TEST @358', 0 MCF, 108 open flow, 116 total MCF Total **
CG: 1320 units
SUMMIT SHALE ZONE Geologist called @359-360' (358-361), gas kick of 136 units
**GAS TEST @370', 5 MCF, 113 open flow, 121 Total **
      359: SH: black fair gas in samples
359-368: SH: grey, SH: black, Pyrite
369-378: SH: grey, LS: black and tan, SH: black
      376-377: SH: dk grey/black, mixed with a tan, spotted LS
MULKY COAL/SHALE ZONE Geologist No call (374-380)
SQUIRREL SAND Geologist called @379-448' (432-449)
379-388: SS: It grey, small grained, firm
389-398: SS: 1t grey, small grained, SS: tan, very firm, angular, like LS
399-408: SS: small grained, no oil
409-418: SS: small to medium grained, biotite, soft
419-428: SS: small to medium grained, lots of biotite stringers, Pyrite
429-438:
The oil sand is below the sand with the biotite. I did not see a shale break
     436: SS: large grained, grey, good oil in pit, good breakout oil
     437: ""
      438: "" great breakout oil, firm, no biotite
     439: SS: 1t grey, speckled, medium firmness, very good breakout oil,
greasy samples
      440: SS: 1t grey, medium grained, fair break out oil, firm, LS: tan
      441: SS: 1t grey, medium grained, speckled, good breakout oil, firm
     442: SS: It grey, medium grained, some firm, fair breakout oil, some soft,
poor breakout oil
     443: SS: 1t grey, medium grained, poor to fair breakout oil
     444: SS: It grey, small to medium grained, poor to fair breakout oil
     445: SS: lt grey, lots of coal growth, medium grained, poor breakout oil
     446: SS: 1t grey, speckled, firm, medium grained, fair to good breakout
      447: SS: It grey, speckled, firm, medium grained, good to v. good breakout
oil-black/tan oil, air bubbles with lots of oil
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448: SS: lt grey, firm, , SS: dk grey, soft, no breakoutOunce

BEVIER ZONE - Geologist called at 451-452', gas kick of 0 units over bg 449-458: LS: It grey, pyrite, SH: grey, Coal 451-452: SH: black 454-461: LS: It grey

 $\tt CROWEBURG$  ZONE Geologist called at 464-466' (463-465), gas kick of 172 units over bg

459-468: LS: It grey, SH: black, pyrite 464-466: SH: black, gas kick of 172 units, fair gas in samples

FLEMING ZONE Geologist called at 472', gas kick of 0 units over bg 472: Coal 469-478: SH: grey, gummy, Coal, SS: white, large grained 479-488: SH: grey 489-498: SH: grey, dk grey

Finished drilling at 2:00pm

Total Rotary Depth, 499 on 8/6/2009
\*\*GAS TEST @499', 13 MCF, 126 open flow, 134 MCF Total \*\*